

## Unit 4 – Solving Multi-Step Equations Quiz 2

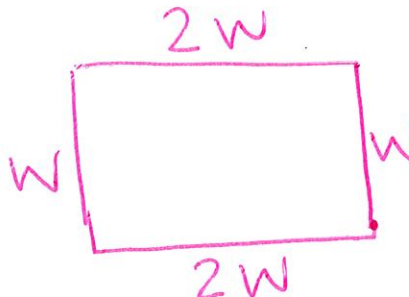
Vocabulary. Match each word to its definition. (2.5 points)

<u>D</u> Solution of an equation	A. an equation that is true for every value
<u>A</u> Identity	B. To separate from others
<u>B</u> Isolate	C. Operations that undo each other
<u>C</u> Inverse Operations	D. Any value(s) that make an equation true
<u>E</u> No Solution	E. No values make an equation true

Solve. (2 points each) If identity or no solution, write *identity* or *no solution*.

$4(b+1) = -4 + 4b$ $4b+4 = -4+4b$ <div style="border: 1px solid black; padding: 5px; display: inline-block;">no solution</div>	$9 + 5x = 7x + 9 - 2x$ $9+5x = 5x+9$ <div style="border: 1px solid black; padding: 5px; display: inline-block;">identity</div>
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The perimeter of a pool table is 30 ft. The table is twice as long as it is wide. What is the length of the pool? (3.5 points)

<div style="display: flex; justify-content: space-around; border-bottom: 1px solid black; margin-bottom: 10px;"> <span>K</span> <span>U</span> </div> <div style="display: flex; justify-content: space-between;"> <div> <math>P = 30</math>  <math>L = 2w</math> </div> <div> <math>L = \text{length}</math>  <math>w = \text{width}</math> </div> </div>	
$30 = 6w$ $5 = w$	$w = 5\text{ft}$ $L = 10\text{ft}$